ঢাকা পানি সরবরাহ ও পয়ঃ নিষ্কাশন কর্তৃপক্ষ

নির্বাহী প্রকৌশলীর কার্যালয়
সংগ্রহ বিভাগ-২, ওয়াসা ভবন (৬ষ্ঠ তলা),
৯৮, কাজী নজলরুল ইসলাম এভিনিউ, কাওরান বাজার, ঢাকা-১২১৫।
WebSite: www.dwasa.org.bd Phone: 41010230

মালামালের পরিদর্শন ও পরীক্ষণ রিপোর্ট

চুক্তি নং-	:	৪৬.১১৩.৪২৮.০০.০০.০০৭/২৪/eGP/২০২৪-সি১৯;	তারিখ : ১৬/০২/২০২৫ ইং।
সরবরাহ আদেশ স্মারক নং-	:	৪৬.১১৩.৪২৮.০০.০০.০০৭.২০২৪-৮২১;	তারিখ : ০৯/০৩/২০২৫ইং।
কাজের নাম	:	Procurement of 150 m3/hr, 125 m head submersible Pump-Motor sets for F.M. Division, Dhaka WASA.	
সরবরাহকারীর নাম	:	ইউনাইটেড ট্রেড সেন্টার, বায়তুল শরফ কমপ্লেক্স (২য় তলা) ১৪৯/এ এয়ারপোর্ট রোড, ফার্মগেট, ঢাকা-১২১৫।	
সরবরাহকারী বিভাগের নাম	:	সংগ্রহ বিভাগ-২, ঢাকা ওয়াসা।	
ব্যবহারকারী বিভাগের নাম	:	ঢাকা ওয়াসার এফ. এম. বিভাগ।	
সরবরাহের স্থান	:	ভান্ডার বিভাগ, ঢাকা ওয়াসা।	
সরবরাহের তারিখ	:	০৩/০৯/২০২৫ ইং।	যৌথ পরিদর্শনের তারিখঃঃ ১১/০৯/২০২৫ ইং।

ক্র.নং	মালামালের বিবরণ	চুক্তি অনুযায়ী মালামালের পরিমাণ	একই কিস্তিতে দেয় মালামালের পরিমাণ
১।	150 m^3/hr.125-meter head submersible Pump- Motor	২৫ (পঁচিশ) সেট	২৫ (পঁচিশ) সেট

সরবরাহকৃত 150 m^3/hr. 125-meter head submersible Pump & Motor সমূহের তালিকাঃ

SL	Pump serial	SL	Pump serial	SL	Motor serial	SL	Motor serial
1	PS25210266	14	PS25210279	1	MR9225170993	14	MR9225171002
2	PS25210267	15	PS25210280	2	MR9225170987	15	MR9225171005
3	PS25210268	16	PS25210281	3	MR9225171006	16	MR9225170990
4	PS25210269	17	PS25210282	4	MR9225170986	17	MR9225170995
5	PS25210270	18	PS25210283	5	MR9225170996	18	MR9225170985
6	PS25210271	19	PS25210284	6	MR9225171000	19	MR9225170992
7	PS25210272	20	PS25210285	7	MR9225170989	20	MR9225170994
8	PS25210273	21	PS25210286	8	MR9225171007	21	MR9225170991
9	PS25210274	22	PS25210287	9	MR9225171001	22	MR9225170983
10	PS25210275	22	PS25210288	10	MR9225170998	22	MR9225170997
11	PS25210276	24	PS25210289	11	MR9225171004	24	MR9225170988
12	PS25210277	25	PS25210290	12	MR9225170999	25	MR9225170984
13	PS25210278			13	MR9225171003		

যৌথ পরিদর্শন কমিটি কর্তৃক সমুদয় মালামাল পরিদর্শন করা হইল এবং তা বাহ্যিকভাবে সঠিক পাওয়া গেল। বাহ্যিকভাবে সঠিক পাওয়ায় টেষ্টের জন্য নমুনা সংগ্রহ করা হল। এম.আই.এস.টি হইতে প্রাপ্ত টেষ্ট রিপোর্টের ভিত্তিতে সমুদয় মালামাল চূড়ান্তভাবে গ্রহণ/বাতিলের সুপারিশ করা হইবে।

11.09.25
মোঃ মাজহারুল ইসলাম
নির্বাহী প্রকৌশলী সংগ্রহ বিভাগ-২
ঢাকা ওয়াসা ও সদস্য-সচিব,
যৌথ পরিদর্শন কমিটি।

সৈয়দ শিহাবুর রহমান
নির্বাহী প্রকৌশলী
ভান্ডার বিভাগ, ঢাকা ওয়াসা ও
সদস্য, যৌথ পরিদর্শন কমিটি।

শেখ এনায়েত আব্দুল্লাহ
উপ-প্রধান নিরাপত্তা ও গোয়েন্দা কর্মকর্তা
নিরাপত্তা ও গোয়েন্দা বিভাগ ঢাকা ওয়াসা
ও সদস্য, যৌথ পরিদর্শন কমিটি।

11/09/2025
মোঃ নওশাদ আলম (চঃ দাঃ)
নির্বাহী প্রকৌশলী,
এফ এম বিভাগ-১, ঢাকা ওয়াসা
ও সদস্য,যৌথ পরিদর্শন কমিটি।

মোঃ আঃ লতিফ
তত্ত্বাবধায়ক প্রকৌশলী
আর.পি.ই. এন্ড.এম সার্কেল, ঢাকা ওয়াসা
ও আহ্বায়ক, যৌথ পরিদর্শন কমিটি।

MIST (ME) REF : 23.12.0902.006.021.008.16.09.2025(1) Date: 16/09/2025; MIST হতে প্রাপ্ত টেষ্ট রিপোর্টের ভিত্তিতে উপরে উল্লেখিত তালিকার পাম্প মোটর সমূহ যৌথ পরিদর্শন কমিটি কর্তৃক চূড়ান্তভাবে গ্রহণের সুপারিশ করা হল।

16.09.25
মোঃ মাজহারুল ইসলাম
নির্বাহী প্রকৌশলী সংগ্রহ বিভাগ-২
ঢাকা ওয়াসা ও সদস্য-সচিব,
যৌথ পরিদর্শন কমিটি।

সৈয়দ শিহাবুর রহমান
নির্বাহী প্রকৌশলী
ভান্ডার বিভাগ, ঢাকা ওয়াসা ও
সদস্য, যৌথ পরিদর্শন কমিটি।

শেখ এনায়েত আব্দুল্লাহ
উপ-প্রধান নিরাপত্তা ও গোয়েন্দা কর্মকর্তা
নিরাপত্তা ও গোয়েন্দা বিভাগ ঢাকা ওয়াসা
ও সদস্য, যৌথ পরিদর্শন কমিটি।

16/09/2025
মোঃ নওশাদ আলম (চঃ দাঃ)
নির্বাহী প্রকৌশলী,
এফ এম বিভাগ-১, ঢাকা ওয়াসা
ও সদস্য,যৌথ পরিদর্শন কমিটি।

মোঃ আঃ লতিফ
তত্ত্বাবধায়ক প্রকৌশলী
আর.পি.ই. এন্ড.এম সার্কেল, ঢাকা ওয়াসা
ও আহ্বায়ক, যৌথ পরিদর্শন কমিটি।

Consultancy, Advisory and Testing Services (CATS)
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210268	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-1
Motor No:	MR 9225171002	Pump ID:	20250915-0653
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	85%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m^3/hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	111.15	155.97	73.85	63.95
2	123.51	148.97	76.21	65.77
3	134.21	145.14	78.49	67.60
4	147.02	138.50	80.14	69.22
5	152.67	135.00	80.46	69.78
6	157.19	131.51	80.62	69.85
7	161.35	128.01	80.87	69.57
8	176.57	114.01	80.70	67.95
9	188.51	100.00	80.00	64.19
10	200.35	85.99	78.50	59.79

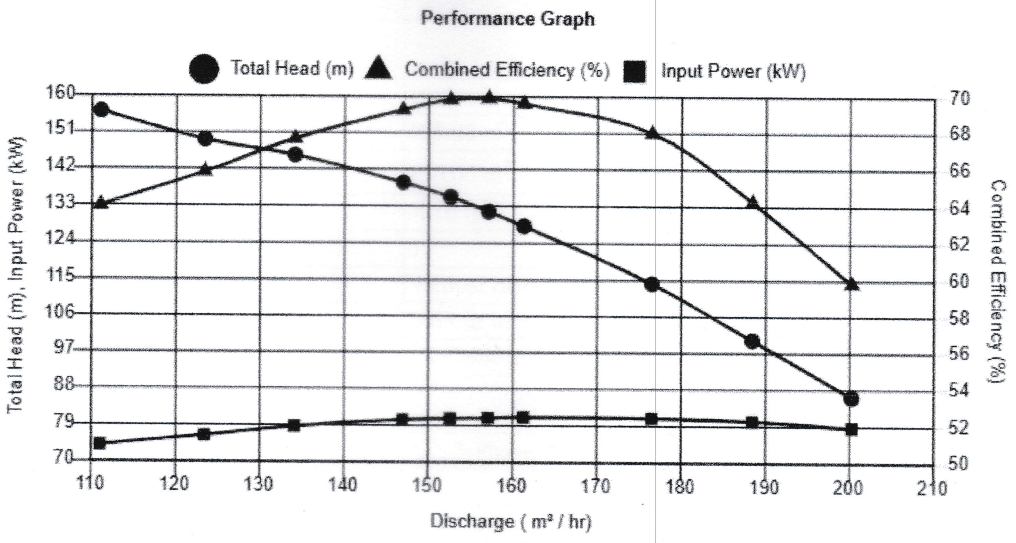
1. At maximum combined efficiency of 69.85%, the pump delivered 157.19 m^3/hr (1.54 ft^3/sec, 2,620.36 l/min) discharge, at a total head of 131.51 m (431.44 ft) with an input power of 80.62 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 136.66 m (448.34 ft) of total head with 69.52% combined efficiency.
3. At 125.00 m (410.10 ft) rated head, the pump discharged 164.92 m^3/hr (1.62 ft^3/sec, 2,749.27 l/min) with 69.34% combined efficiency.

Prepared By	Approved By
Tariq Mahbub Assistant Professor, ME Dept	Brig Gen Md Awal Khan Head, ME Dept MD AWAL KHAN Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka

Consultancy, Advisory and Testing Services (CATS)
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210268	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-1
Motor No:	MR 9225171002	Pump ID:	20250915-0653
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	85%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V



1. At maximum combined efficiency of 69.85%, the pump delivered 157.19 m^3/hr (1.54 ft^3/sec, 2,620.36 l/min) discharge, at a total head of 131.51 m (431.44 ft) with an input power of 80.62 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 136.66 m (448.34 ft) of total head with 69.52% combined efficiency.
3. At 125.00 m (410.10 ft) rated head, the pump discharged 164.92 m^3/hr (1.62 ft^3/sec, 2,749.27 l/min) with 69.34% combined efficiency.

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TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210268	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-1
Motor No:	MR 9225171002	Pump ID:	20250915-0653
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	85%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	125.00 m
Rated Discharge	150.00 m^3/hr
Speed (No Load)	3014 rpm
No of Stages	07
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pomp bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	152.4 amp
Rated Power	79.75 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x66.19 mm^2
Cable Size (without insulation)	3x32.37 mm^2
Cable Length	2X 4.30 m

Prepared By	Approved By
Tariq Mahbub Assistant Professor, ME Dept	Brig Gen Md Awal Khan Head, ME Dept MD AWAL KHAN Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka

Consultancy, Advisory and Testing Services (CATS)
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210266	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-2
Motor No:	MR 9225170993	Pump ID:	20250915-0654
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	84%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m^3/hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	109.55	156.66	74.09	63.10
2	121.44	149.67	76.25	64.94
3	138.48	141.99	78.90	67.89
4	149.13	135.69	80.05	68.87
5	154.37	132.41	80.49	69.18
6	159.37	129.05	80.78	69.36
7	166.64	121.98	80.35	68.92
8	174.82	114.70	80.78	67.62
9	187.67	100.70	80.19	64.20
10	199.40	86.69	78.84	59.73

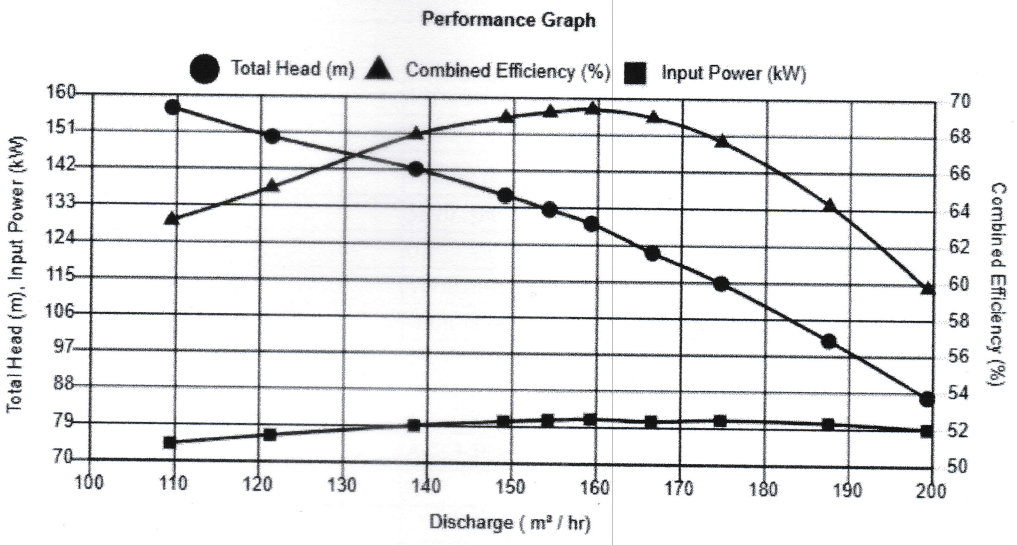
1. At maximum combined efficiency of 69.36%, the pump delivered 159.37 m^3/hr (1.56 ft^3/sec, 2,656.70 l/min) discharge, at a total head of 129.05 m (423.40 ft) with an input power of 80.78 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 135.15 m (443.40 ft) of total head with 68.92% combined efficiency.
3. At 125.00 m (410.10 ft) rated head, the pump discharged 163.54 m^3/hr (1.60 ft^3/sec, 2,726.15 l/min) with 69.10% combined efficiency.

Prepared By	Approved By
Tariq Mahbub Assistant Professor, ME Dept	Brig Gen Md Awal Khan Head, ME Dept MD AWAL KHAN Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka

Consultancy, Advisory and Testing Services (CATS)
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210266	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-2
Motor No:	MR 9225170993	Pump ID:	20250915-0654
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	84%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V



1. At maximum combined efficiency of 69.36%, the pump delivered 159.37 m^3/hr (1.56 ft^3/sec, 2,656.70 l/min) discharge, at a total head of 129.05 m (423.40 ft) with an input power of 80.78 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 135.15 m (443.40 ft) of total head with 68.92% combined efficiency.
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TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
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Motor No:	MR 9225170993	Pump ID:	20250915-0654
Date of Test:	15-09-2025	Ambient Temperature:	28°C
Relative Humidity:	84%	Water Temperature:	27°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	125.00 m
Rated Discharge	150.00 m^3/hr
Speed (No Load)	3010 rpm
No of Stages	07
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pomp bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	152.87 amp
Rated Power	80.05 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x66.19 mm^2
Cable Size (without insulation)	3x32.37 mm^2
Cable Length	2x4.30 m

Prepared By	Approved By
Tariq Mahbub Assistant Professor, ME Dept	Brig Gen Md Awal Khan Head, ME Dept

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Brigadier General
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MIST, Mirpur Cantonment, Dhaka

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RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210270	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-3
Motor No:	MR 9225170987	Pump ID:	20250915-0655
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	85%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m^3/hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	127.05	148.28	77.18	66.49
2	138.89	144.10	79.45	68.62
3	148.65	137.80	80.33	69.47
4	153.26	134.65	80.76	69.61
5	158.22	130.81	80.80	69.78
6	162.30	127.31	80.96	69.52
7	170.64	119.61	80.90	68.73
8	177.59	113.31	81.18	67.52
9	189.85	99.30	80.01	64.19
10	201.28	85.29	78.69	59.43

1. At maximum combined efficiency of 69.78%, the pump delivered 158.22 m^3/hr (1.55 ft^3/sec, 2,637.53 l/min) discharge, at a total head of 130.81 m (429.15 ft) with an input power of 80.80 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 136.88 m (449.08 ft) of total head with 69.51% combined efficiency.
3. At 125.00 m (410.10 ft) rated head, the pump discharged 164.80 m^3/hr (1.62 ft^3/sec, 2,747.18 l/min) with 69.28% combined efficiency.

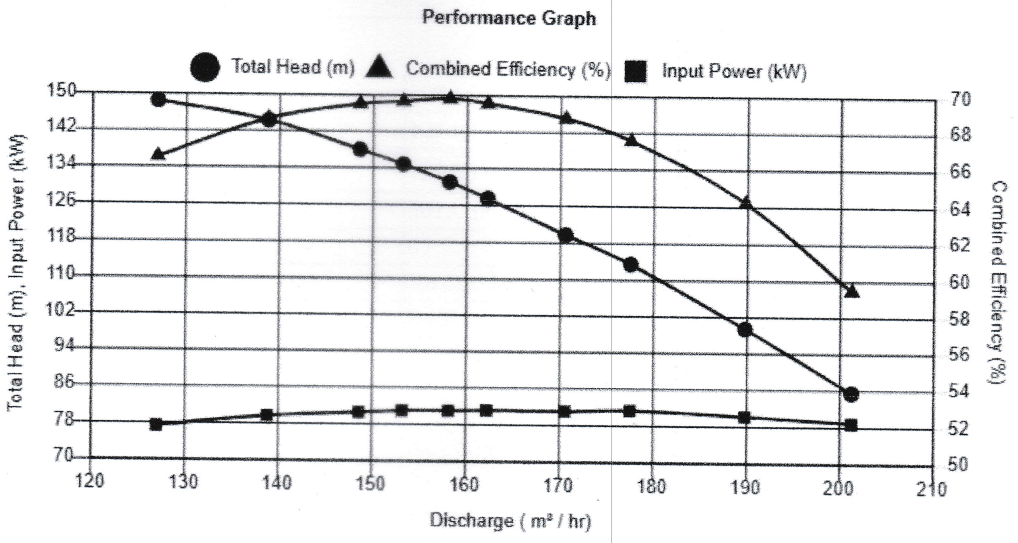
Prepared By	Approved By
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PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210270	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-3
Motor No:	MR 9225170987	Pump ID:	20250915-0655
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	85%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V



1. At maximum combined efficiency of 69.78%, the pump delivered 158.22 m^3/hr (1.55 ft^3/sec, 2,637.53 l/min) discharge, at a total head of 130.81 m (429.15 ft) with an input power of 80.80 kW.
2. At 150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min) rated discharge, the pump developed 136.88 m (449.08 ft) of total head with 69.51% combined efficiency.
3. At 125.00 m (410.10 ft) rated head, the pump discharged 164.80 m^3/hr (1.62 ft^3/sec, 2,747.18 l/min) with 69.28% combined efficiency.

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TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	125.00 m (410.10 ft)	Client's Ref and Date:	46.113.428.00.00.007.2024-282 Date: 11-09-2025
Discharge:	150.00 m^3/hr (1.47 ft^3/sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210270	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025(1)-3
Motor No:	MR 9225170987	Pump ID:	20250915-0655
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	85%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	125.00 m
Rated Discharge	150.00 m^3/hr
Speed (No Load)	3015 rpm
No of Stages	07
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pomp bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	153.70 amp
Rated Power	79.53 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x66.19 mm^2
Cable Size (without insulation)	3x32.37 mm^2
Cable Length	2X 4.30 m

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